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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,300	11/18/2003	Thomas D. Radcliff	965_021	6938	
. 20874 7	590 03/22/2005		EXAMINER		
WALL MARJAMA & BILINSKI			NGUYEN, HOANG M		
101 SOUTH SALINA STREET SUITE 400			ART UNIT	PAPER NUMBER	
SYRACUSE,	NY 13202		3748		

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

					MF		
			Application No.	Applicant(s)	•		
Office Action Summary			10/716,300	RADCLIFF ET AL.			
			Examiner	Art Unit			
			Hoang M Nguyen	3748			
Period f	The MAILING DATE of this communior Reply	nication appea	ars on the cover sheet v	vith the correspondence address			
THE - Extending - If th - If No - Fail Any	MAILING DATE OF THIS COMMUN ensions of time may be available under the provision: r SIX (6) MONTHS from the mailing date of this com e period for reply specified above is less than thirty (5) o period for reply is specified above, the maximum is our to reply within the set or extended period for reply reply received by the Office later than three months ned patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136( munication. 30) days, a reply w statutory period will y will, by statute, ca	(a). In no event, however, may a ithin the statutory minimum of the apply and will expire SIX (6) MC ause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this commun ABANDONED (35 U.S.C. § 133).	ication.		
Status					•		
1)	Responsive to communication(s) fil	ed on .					
2a)□			ction is non-final.				
3)□	Since this application is in condition	•		tters, prosecution as to the mer	its is		
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposi	tion of Claims						
ŕ	Claim(s) <u>1-14</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.						
·	☑ Claim(s) is/are allowed. ☑ Claim(s) <u>1-14</u> is/are rejected.						
	Claim(s) is/are rejected.  Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or election requirement.						
Applicat	tion Papers						
9)	The specification is objected to by the	ne Examiner.					
	The drawing(s) filed on is/are		oted or b) objected to	by the Examiner.			
·	Applicant may not request that any obje	-	·	-			
	Replacement drawing sheet(s) includin	g the correction	n is required if the drawin	g(s) is objected to. See 37 CFR 1.	I21(d).		
11)	The oath or declaration is objected t	to by the Exa	miner. Note the attach	ed Office Action or form PTO-15	52.		
Priority	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim  All b) Some * c) None of:  Certified copies of the priority			§ 119(a)-(d) or (f).			
	<ul><li>2. Certified copies of the priority</li><li>3. Copies of the certified copies application from the Internation</li></ul>	of the priority	y documents have bee	Application No n received in this National Stag	е		
*	See the attached detailed Office action	`	• • • • •	t received.			
Attachme							
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (	PTO-948\		Summary (PTO-413) o(s)/Mail Date			
Notice of Draitspersor's Fatent Drawing Review (F10-946)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date 9-01-04.				Informal Patent Application (PTO-152)			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5-7, 9-12, are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 4901531 (Kubo et al) in view of U.S. 5761921 (Hori et al). Kubo et al discloses a waste heat recovery system using the heat from an internal combustion engine 50 for driving a Rankine cycle including an expander 235, condenser 210, pump 212, through a heat exchanger, note column 8, lines 64-68 to column 9, lines 1-30, Kubo et al clearly explains that the heat exchanger in his system can be used to transfer heat to at least two sources, 1) oil cooler from pump 221 to cylinder heat 231 and intake 230 of the heat exchanger, and 2) the working fluid of the Rankine cycle of course. Kubo et al does not disclose the organic working fluid. Hori et al is relied upon to disclose it's well known to use a combined cycles power plant having a Rankine cycle using refrigerant or organic fluid as claimed. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to use organic fluid as the working fluid or refrigerant in Kubo et al as taught by Hori et al for the purpose of achieving appropriate work output. Regarding claims 5-7, it would have been obvious to select different types of heat exchanger in Kubo et al for the purpose of improving the heat exchanging rates.

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Claims 4, 8, 13-14, are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 4901531 (Kubo et al) in view of U.S. 5761921 (Hori et al) and US 5056315 (Jenkins). Kubo et al as modified by Hori et al discloses all the claimed subject matter as set forth above in the rejection of claim 1, but Kubo et al does not disclose the heat exchanger includes lubricant. Jenkins is relied upon to disclose it's well known to use a heat exchanger 70 for 3 different heat exchanging fluid including lubricant, the heat exchanging sections 58, 60, 64, can be mounted either parallel or series in said heat exchanger 70 (note column 7, lines 47-59). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include lubricant heat exchanging means in Kubo et al as taught by Jenkins for the purpose of improving the conditions of the lubricant.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bronicki, Jones et al, and Radcliff et al disclose combined power systems using multi-sources heat exchangers.

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Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday--Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion, can be reached on (571)-272-4859. The fax phone number for the Examiner is (703) 872-9302 for regular communication, and (703) 872-9303 for after final communication.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-3700.

HOANG NGUYEN PRIMARY EXAMINER ART UNIT 3748

Hoang Minh Nguyen 3/19/05